

L Number	Hits	Search Text	DB	Time stamp
1	6625	controlled adj pore adj glass	USPAT; US-PPGPUB	2004/11/24 12:52
6	0	(controlled adj pore adj glass) and (spinodal near3 decomposition) and (boron)	USPAT; US-PPGPUB	2004/11/24 12:49
7	0	(controlled adj pore adj glass) and (spinodal) and (boron)	USPAT; US-PPGPUB	2004/11/24 12:49
8	0	(controlled adj pore adj glass) and (spinodal)	USPAT; US-PPGPUB	2004/11/24 13:17
9	44	(controlled adj pore adj glass) and (decomposition) and (boron)	USPAT; US-PPGPUB	2004/11/24 12:49
10	44	((controlled adj pore adj glass) and (decomposition) and (boron)) and @ad<20031121	USPAT; US-PPGPUB	2004/11/24 14:03
11	10914	((controlled adj pore adj glass) or CPG)	USPAT; US-PPGPUB	2004/11/24 13:17
12	1035	((controlled adj pore adj glass) or CPG) and (silicon adj (oxide or dioxide))	USPAT; US-PPGPUB	2004/11/24 13:05
13	128	((((controlled adj pore adj glass) or CPG)) and (silicon adj (oxide or dioxide))) and boron	USPAT; US-PPGPUB	2004/11/24 12:53
14	126	(((((controlled adj pore adj glass) or CPG)) and (silicon adj (oxide or dioxide)))) and boron) and @ad<20031121	USPAT; US-PPGPUB	2004/11/24 12:54
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17	6971	((controlled adj pore adj glass) or CPG) and (thermal or annealing or heating)	USPAT; US-PPGPUB	2004/11/24 13:13
18	360	((((controlled adj pore adj glass) or CPG)) and (thermal or annealing or heating)) and (spindoa1 or decomposition)	USPAT; US-PPGPUB	2004/11/24 13:06
19	357	(((((controlled adj pore adj glass) or CPG)) and (thermal or annealing or heating)) and (spindoa1 or decomposition)) and @ad<20031121	USPAT; US-PPGPUB	2004/11/24 13:07
20	17	((controlled adj pore adj glass) or CPG) and (thermal or annealing or heating)	EPO; JPO; DERWENT; IBM_TDB	2004/11/24 13:15
15	721	((controlled adj pore adj glass) or CPG)	EPO; JPO; DERWENT; IBM_TDB	2004/11/24 13:14
22	704	((controlled adj pore adj glass) or CPG) not (((controlled adj pore adj glass) or CPG)) and (thermal or annealing or heating))	EPO; JPO; DERWENT; IBM_TDB	2004/11/24 13:15
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29	96	((pore with glass) and dielectric and @ad<20031121) and boron	USPAT; US-PPGPUB	2004/11/24 13:56

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42	1	("20030091476").PN.	USPAT; US-PGPUB	2004/11/24 14:17
43	1	("6156091").PN.	USPAT; US-PGPUB	2004/11/24 14:21
44	138	(Jon with Casey) or (Daniel with Edelstein)	USPAT; US-PGPUB	2004/11/24 14:23
45	8	((Jon with Casey) or (Daniel with Edelstein)) and pore	USPAT; US-PGPUB	2004/11/24 14:23
46	29	(Jon with Casey) or (Daniel with Edelstein)	EPO; JPO; DERWENT; IBM_TDB	2004/11/24 14:23
47	0	((Jon with Casey) or (Daniel with Edelstein)) and pore	EPO; JPO; DERWENT; IBM_TDB	2004/11/24 14:23
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48	0	(controlled adj pore adj glass) same (insulator or insulating or insulative)	USPAT; US-PGPUB	2004/11/24 14:27
49	4	(controlled adj pore adj glass) same dielectric	USPAT; US-PGPUB	2004/11/24 14:28
50	97	((controlled adj pore adj glass) and dielectric	USPAT; US-PGPUB	2004/11/24 14:28
51	97	((controlled adj pore adj glass) and dielectric) and @ad<20031121	USPAT; US-PGPUB	2004/11/24 14:29

L Number	Hits	Search Text	DB	Time stamp
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4	9	alkaline adj borosilicate adj glass	EPO; JPO; DERWENT; IBM_TDB	2004/11/30 14:56
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9	0	438/619, 622-624, 629, 634, 637-640.cccls. and (alkaline adj borosilicate adj glass)	USPAT; US-PGPUB	2004/11/30 15:01
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14	10	(438/\$.cccls. and (controlled adj pore adj glass)) and @ad<20031121	USPAT; US-PGPUB	2004/11/30 15:27
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18	14	((257/\$.cccls. and (controlled adj pore adj glass)) and @ad<20031121) not ((438/\$.cccls. and (controlled adj pore adj glass)) and @ad<20031121) not ((438/\$.cccls. and (CPG)) and @ad<20031121))	USPAT; US-PGPUB	2004/11/30 15:08
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45	0	((MgO adj "B.sub.20.sub.3" adj "SiO.sub.2") same pore)	EPO; JPO; DERWENT; IBM_TDB	2004/11/30 15:35
46	0	((BeO adj "B.sub.20.sub.3" adj "SiO.sub.2") same pore)	EPO; JPO; DERWENT; IBM_TDB	2004/11/30 15:36
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48	0	((ZnO adj "B.sub.20.sub.3" adj "SiO.sub.2") same pore)	EPO; JPO; DERWENT; IBM_TDB	2004/11/30 15:36
49	0	((K.sub.20" adj "B.sub.20.sub.3" adj "SiO.sub.2") same pore)	EPO; JPO; DERWENT; IBM_TDB	2004/11/30 15:36
50	0	("Na.sub.20B.sub.20.sub.3SiO.sub.2") same pore	EPO; JPO; DERWENT; IBM_TDB	2004/11/30 15:37
51	0	("Li.sub.20B.sub.20.sub.3SiO.sub.2") same pore	EPO; JPO; DERWENT; IBM_TDB	2004/11/30 15:37

DOCUMENT-IDENTIFIER: US 20040029303 A1

TITLE: Discrete nano-textured structures  
in biomolecular arrays, and method of use

----- KWIC -----

Application Filing Date - APD (1):  
20020807

Current US Classification, US Primary Class/Subclass - CCPR (1):

438/16

Detail Description Paragraph - DETX (6):

[0025] Alternatively, controlled pore glass may be used. Controlled pore glass is made starting with a borosilicate material that is heated, resulting in separation of the borates and the silicates within the borosilicate material. After then leaching out the borates, one is left with a glass having pores of substantially uniform size. One commercially available source of controlled pore glass is Controlled Pore Glass, Inc., Lincoln Park, N.J. A slurry made from solvent and microscopic particles of controlled pore glass may be made (or silica aerogel particles can also be used, either alone or in a matrix of sol-gel silica, silica, spin-on glasses, substituted silsesquioxanes (SSQs) (such as MSSQ, hydrido SSQ, alkyl SSQ, aryl SSQ), and copolymers thereof) and passed over the substrate 16. After the solvent has evaporated, any excess pore glass on the substrate 16 may be polished or scraped off, and the remaining pore glass may be sintered in situ so that the pore glass is

bound within the microwells 22, i.e., to the walls 30 of the microwells. If necessary, the substrate 16 may then be polished back to ensure that the pore glass resides only within the microwells 22, and not on top of the substrate

16. (Alternatively, one can vapor deposit borosilicate glass into the microwells, polish, leach out the borates, and anneal.) A more elaborate method for adding pore glass particles to the microwells involves the use of patterned electric and/or magnetic fields. The particles can be drawn into the wells 22 electrokinetically, or if controlled pore glass particles having magnetic impurities therein are used, by a magnetic field. The pore glass particles can then be manipulated by introducing, underneath the substrate 16, a patterned electric and/or magnetic field having high field gradients and/or strengths, so that the pore glass particles are drawn into the microwells 22. To this end, one can position a plate having a patterned array of metal protrusions underneath the substrate 16, with the protrusions being aligned with respective microwells.

DOCUMENT-IDENTIFIER: US 20030091476 A1

TITLE: Fluidic methods and devices for  
parallel chemical reactions

----- KWIC -----

Detail Description Paragraph - DETX (22) :

[0075] FIG. 3A illustrates an exploded perspective view of a flowthrough multi-cell reactor device, a preferred embodiment of the present invention. In this device, a microfluidic template 310 is sandwiched between a first window plate 351 and a second window plate 361. Preferably, the microfluidic template 310 is made of silicon when reaction cells are small. In this case, the preferred distance between adjacent reaction cells is in the range of 10 to 5,000 .mu.m. More preferably, the distance is in the range of 10 to 2,000 .mu.m. Yet more preferably, the distance is in the range of 10 to 500 .mu.m. Even more preferably, the distance is in the range of 10 to 200 .mu.m. The silicon microfluidic template 310 is formed using etching processes which are well known to those skilled in the art of semiconductor processes and microfabrication (Madou, M., Fundamentals of Microfabrication, CRC Press, New York, (1997)). The top surface 313 of the microfluidic template 310 is preferably coated with silicon dioxide, which can be made by either oxidation or evaporation during a fabrication process. When the reaction cells are large, e.g. the distance between adjacent reaction cells is larger than 5,000 .mu.m, plastic materials are preferred. Plastic materials may also be preferred for large quantity production of the multi-cell

reactor device even when the distance between adjacent reaction cells is less than 5.000 .mu.m. Preferred plastics include but are not limited to polyethylene, polypropylene, polyvinylidene fluoride, and polytetrafluoroethylene. The plastic microfluidic template 310 can be made using molding methods, which are well known to those skilled in the art of plastic processing. The one aspect of the present invention, the first window plate 351 and the second window plate 361 are preferably made of transparent glass and are bonded with the microfluidic template 310. In another aspect of the present invention, the first window plate 351 and the second window plate 361 are preferably made of transparent plastics including but not limited to polystyrene, acrylic, and polycarbonate, which have the advantage of low cost and easy handing.

Detail Description Paragraph - DETX (33) :

[0086] The microfluidic array devices of this invention can be used to produce or immobilize molecules at increased quantities by incorporating porous films 543a and 543b in the reaction chambers or cells as shown in FIG. 5D. Several materials and fabrication processes, which are well known to those skilled in the art of solid phase synthesis (A Practical Guide to Combinatorial Chemistry", edited by Czamik et al., American Chemical Society, 1997. incorporated herein by reference), can be used to form the porous films inside the device. One process is to form a controlled porous glass film on the silicon wafer, which forms the fluidic template 510, during the device fabrication process. In the first preferred process, a borosilicate glass film is deposited by plasma vapor deposition on the silicon wafer. The wafer is thermally annealed to form segregated regions of boron and

silicon oxide. The boron is then selectively removed using an acid etching process to form the porous glass film, which is an excellent substrate material for oligonucleotide and other synthesis processes. In the second preferred process, polymer film, such as cross-linked polystyrene, is formed. A solution containing linear polystyrene and UV activated cross-link reagents is injected into and then drained from a microfluidic array device leaving a thin-film coating on the interior surface of the device. The device, which contains opaque masks 564 to define the reaction chamber regions, is next exposed to UV light so as to activate crosslinks between the linear polystyrene chains in the reaction chamber regions. This is followed by a solvent wash to remove non-crosslinked polystyrene, leaving the crosslinked polystyrene only in the reaction chamber regions as shown in FIG. 5D. Crosslinked polystyrene is also an excellent substrate material for oligonucleotide and other synthesis processes.

Detail Description Paragraph - DETX (41) :

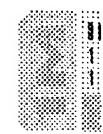
[0094] FIG. 7A schematically illustrates a variation of a flowthrough multi-cell reactor with reaction chambers containing beads in which solid-phase chemical reactions take place, another embodiment of the two-level device configuration shown in FIG. 2B. The beads 741 are made of materials including, but not limited to, CPG (controlled pore glasses), cross-linked polystyrene, and various resins that are used for solid-phase synthesis and analysis that have been extensively discussed in "A Practical Guide to Combinatorial Chemistry", edited by Czarnik et al., American Chemical Society, 1997. In one aspect of the present invention, the chemical compounds formed in or on the

beads 741 are used for assay applications. The porous or three-dimensional structure of the beads supports high loading of the chemical compounds and therefore, leads to high sensitivity of the assay. Another embodiment of the present invention involving high loading substrate is shown in FIG. 7B. Resin pads 742 are used in place of beads.

Detail Description Paragraph - DETX (45) :

[0098] In a preferred embodiment of the present invention, a device configuration shown in FIG. 3C is used and an array of oligonucleotides for hybridization assay applications is synthesized. The microfluidic template 310 is made of silicon. The first window plate 351 and the second window plate 361 are made of glass. The top surface 313 of the microfluidic template 310 is coated with silicon dioxide. The inner surface areas of the microfluidic device is first derivatised with linker molecules, such as N-(3-triethoxysilylpropyl)-4-hydroxybutyramide (obtainable from Gelest Inc., Tullytown, Pa. 19007, USA) so that the hydroxyl containing linker molecules are attached to the silicon dioxide and glass surfaces. The derivitization of various solid surfaces is well known to those skilled in the art (Beier et al, in Nucleic Acids Research, 27, 1970, (1999), and references quoted therein). A DMT (4,4'-dimethoxytrityl)-protected spacer phosphoramidite, such as Spacer Phosphoramidite 9 supplied by Glen Research, Sterling, Va. 20164, USA, is injected into the reactor and is coupled to the linker molecules. It is well known that the use of the spacer is advantageous for hybridization application of the assay (Southern et al. in Nature Genetics Supplement, 21, 5, (1999)). Photogenerated-acid precursor (PGAP), such as an onium salt SSb (from Secant chemicals Inc., MA 01475, USA) in CH<sub>2</sub>Cl<sub>2</sub>, is

injected into the reactor. While keeping a steady flow of PGAP, a first predetermined group of illumination chambers 325 is illuminated so that photogenerated acid (PGA) is generated and the detritylation (removal of DMT protection groups) takes place in the corresponding reaction cells, which consists of an illumination chamber 323, a connection channel 324, and a reaction chamber 325. A first DMT (4,4'-dimethoxytrityl)-protected phosphoramidite monomer, choosing from dA, dC, dG, and dT (obtainable from Glen Research, Sterling, Va. 20164, USA), is injected into the reactor so that the first phosphoramidite monomer is coupled to the spacer in the illuminated reaction cells. No coupling reaction takes place the un-illuminated reaction cells because the spacer molecules in these cells are still protected by DMT groups. The synthesis reaction is preceded with capping and oxidation reactions, which are well known to those skilled in the art of oligonucleotide synthesis (Gait et al, in "Oligonucleotide Synthesis: a Practical Approach", Oxford, 1984). A second predetermined group of illumination chambers are then illuminated followed by the coupling of the second phosphoramidite monomer. The process proceeds until oligonucleotides of all predetermined sequences are formed in all predetermined reaction cells.

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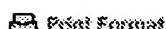
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Pages:122 - 128[\[Abstract\]](#)   [\[PDF Full-Text \(681 KB\)\]](#)   **IEEE JNL****2 Effect of water inclusions on charge transport and polarization in polymer media***Capaccioli, S.; Lucchesi, M.; Casalini, R.; Rolla, P.A.; Bona, N.;**Dielectrics and Electrical Insulation, IEEE Transactions on [see also Electrical Insulation, IEEE Transactions on]*, Volume: 8 , Issue: 3 , June 2001  
Pages:454 - 460[\[Abstract\]](#)   [\[PDF Full-Text \(984 KB\)\]](#)   **IEEE JNL****3 Ceramic coatings and its properties controlling***Verechshagin, V.I.; Petrovskaya, T.S.; Ignatov, V.P.;**Science and Technology, 2003. Proceedings KORUS 2003. The 7th Korea-Russian International Symposium on*, Volume: 1 , 28 June-6 July 2003  
Pages:170 - 174 vol.1[\[Abstract\]](#)   [\[PDF Full-Text \(398 KB\)\]](#)   **IEEE CNF****4 3-D interconnected porous AlN composite: a viable substrate for electronic packaging***Jin Yong Kim; Kumta, P.N.;**Aerospace and Electronics Conference, 1998. NAECON 1998. Proceedings of the IEEE 1998 National* , 13-17 July 1998

Pages:656 - 665

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*Wahlers, R.L.; Stein, S.J.; Sykora, G.P.;*

Electronic Components and Technology Conference, 1990. Proceedings., 40th  
23 May 1990

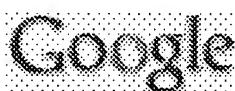
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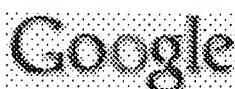
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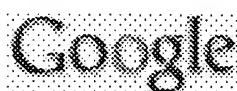


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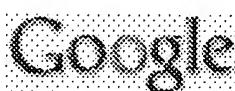
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... 2 boric 2 boring 1 borne 3 boro 1 **boron** 3 borough 9 ... 9 covington 1 cowpen 3 coyote  
1 cp 3 **cpg** 1 cpt ... 3 dicyanamide 1 die 2 diego 1 dieldrin 1 **dielectric** 7 diesel ...

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### Bandwidth Market, Ltd

... of differences in bulk (or **dielectric**) impedance. ... and 3D show the synthesis of the  
**CPG** derivative, and ... oxygen, sulfur, phosphorus, silicon or **boron** included in ...

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### John F. Kennedy Space Center - NASA/KSC Acronym List

... Beat Frequency Oscillator BFRP **Boron** Fiber Reinforced ... Cost Plus Fixed Fee **CPG** Change  
Planning ... Disaster Warning Satellite DWV **Dielectric** Withstanding Voltage DY ...

[www.ksc.nasa.gov/inforcenter/acronym.htm](#) - 101k - Nov 22, 2004 - [Cached](#) - [Similar pages](#)

### [PDF] Federal Facilities in North Carolina and South Atlantic Division

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... the Environmental Protection Agency's (EPA) requirements for recycled content materials  
(RCM) as per the EPA's Comprehensive Procurement Guidelines (**CPG**). ...

[ebs.sas.usace.army.mil/Solicitations/ DACA21-03-R-0030%5CSpecifications/VOL3.PDF](#) - [Similar pages](#)

### [PDF] BULLETIN - AQSSS

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Page 1. Dépôt légal Bibliothèque nationale du Québec ISSN 0838 4495

AQSSS, Complexe scientifique du Québec, a/s Rock Ouimet ...

[www.sbf.ulaval.ca/Aqsss/bulletins/AQSSS\\_6\(1-2\)\\_1996.pdf](#) - [Similar pages](#)

### [PDF] Annual Report of Naka Fusion Research Establishment from April 1 ...

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... Supervisory CAMAC BH Network CPU0,1 CBD SD RM DIO **CPG** WS ... **dielectric** strength 25 %  
larger than that of the original one was fabricated and installed by the ...

[www-jt60.naka.jaeri.go.jp/ annual/99/html/AnnualReport\\_99.pdf](#) - [Similar pages](#)

### [ps] Input Manual for ACES II

File Format: Adobe PostScript - [View as Text](#)

... to an integer Na **dielectric** constant of N is used to determine the orbitals. ... An example  
of the **boron** PVTZ basis set entry in the GENBAS file is included below. ...

[www.ftp.ufl.edu/Aces2/manual.ps](#) - [Similar pages](#)

### [ps] Scientific Report 1995 Stefano Baroni and Emmanuelle Crespeau ...

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... Sample-size hysteresis was also negligible. Changing the non-bonded parameters and the dielectric constant also had a small effect. ...

[www.cecam.fr/activities/reports/reports95/report95.ps.gz](http://www.cecam.fr/activities/reports/reports95/report95.ps.gz) - Similar pages

[PDF] ? ? ? ? ? ? ? ? ? ?

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... 7. Y. Kishimoto, T. Ohno, K. Miyatani, T. Tanaka, T. Nishikawa, M. Tange, M. Wake, T. Kashiwagi, H. Ogawa and H. Kawai; **Dielectric Constant and Dielectric Loss** ...

[web.e.tokushima-u.ac.jp/book/bulletin2003.final/bulletin.pdf](http://web.e.tokushima-u.ac.jp/book/bulletin2003.final/bulletin.pdf) - Similar pages

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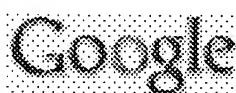
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... be silenced. One candidate for the imprinting mark is methylation of CpG dinucleotides on one of the parental alleles. This imprint ...

[www.sju.edu/honor-society/sigma-xi/2003book.pdf](http://www.sju.edu/honor-society/sigma-xi/2003book.pdf) - [Similar pages](#)

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cpg

Search

 Check to search within this result set

## Results Key:

**JNL** = Journal or Magazine   **CNF** = Conference   **STD** = Standard**1 The CPG-based bionic quadruped system**

*Cheng Zifeng; Zheng Haojun; Zhang Xiuli; Zhao Liyao;*  
Systems, Man and Cybernetics, 2003. IEEE International Conference on , Volu  
2 , 5-8 Oct. 2003

Pages:1828 - 1833 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(639 KB\)\]](#) **IEEE CNF****2 Sequential modeling for identifying CpG island locations in human genome**

*Dasgupta, N.; Lin, S.; Carin, L.;*  
Signal Processing Letters, IEEE , Volume: 9 , Issue: 12 , Dec. 2002  
Pages:407 - 409

[\[Abstract\]](#) [\[PDF Full-Text \(195 KB\)\]](#) **IEEE JNL****3 Toward biomorphic control using custom aVLSI CPG chips**

*Lewis, M.A.; Etienne-Cummings, R.; Cohen, A.H.; Hartmann, M.;*  
Robotics and Automation, 2000. Proceedings. ICRA '00. IEEE International Conference on , Volume: 1 , 24-28 April 2000  
Pages:494 - 500 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(616 KB\)\]](#) **IEEE CNF****4 Sensitivity analysis of a hybrid neural network for locomotor control the lamprey**

*Brewer, B.G.; Jung, R.;*  
Biomedical Engineering Conference, 1997., Proceedings of the 1997 Sixteenth Southern , 4-6 April 1997  
Pages:353 - 356

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[\[Abstract\]](#) [\[PDF Full-Text \(344 KB\)\]](#) [IEEE CNF](#)

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**5 Towards 3D adaptive dynamic walking of a quadruped robot on irregular terrain by using neural system model**

*Kimura, H.; Fukuoka, Y.; Konaga, K.; Hada, Y.; Takase, K.;*  
Intelligent Robots and Systems, 2001. Proceedings. 2001 IEEE/RSJ International Conference on , Volume: 4 , 29 Oct.-3 Nov. 2001  
Pages:2312 - 2317 vol.4

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[\[Abstract\]](#) [\[PDF Full-Text \(486 KB\)\]](#) [IEEE CNF](#)

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**6 Artificial neural networks for the emulation of human locomotion patterns**

*Rao, D.H.; Kamat, H.V.;*  
Engineering in Medicine and Biology Society, 1995 and 14th Conference of the Biomedical Engineering Society of India. An International Meeting, Proceeding the First Regional Conference., IEEE , 15-18 Feb. 1995  
Pages:2/80 - 2/81

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[\[Abstract\]](#) [\[PDF Full-Text \(192 KB\)\]](#) [IEEE CNF](#)

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**7 Adaptive dynamic walking of the quadruped on irregular terrain-autonomous adaptation using neural system model**

*Kimura, H.; Fukuoka, Y.;*  
Robotics and Automation, 2000. Proceedings. ICRA '00. IEEE International Conference on , Volume: 1 , 24-28 April 2000  
Pages:436 - 443 vol.1

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[\[Abstract\]](#) [\[PDF Full-Text \(668 KB\)\]](#) [IEEE CNF](#)

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**8 Energy-based pattern transition in quadrupedal locomotion with oscillator and mechanical model**

*Ito, S.; Yuasa, H.; Ito, K.; Ito, M.;*  
Systems, Man, and Cybernetics, 1996., IEEE International Conference on , Vol 3 , 14-17 Oct. 1996  
Pages:2321 - 2326 vol.3

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[\[Abstract\]](#) [\[PDF Full-Text \(472 KB\)\]](#) [IEEE CNF](#)

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**9 An analog neural oscillator circuit for locomotion controller in quadruped walking robot**

*Nakada, K.; Asai, T.; Amemiya, Y.;*  
Neural Networks, 2003. Proceedings of the International Joint Conference on , Volume: 2 , 20-24 July 2003  
Pages:983 - 988 vol.2

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[\[Abstract\]](#) [\[PDF Full-Text \(412 KB\)\]](#) [IEEE CNF](#)

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**10 Behavior generation of bipedal robot using central pattern generator (CPG) (1st report: CPG parameters searching method by genetic algorithm)**

*Inada, H.; Ishii, K.;*

Intelligent Robots and Systems, 2003. (IROS 2003). Proceedings. 2003 IEEE/International Conference on , Volume: 3 , Oct. 27-31, 2003  
Pages:2179 - 2184

[Abstract] [PDF Full-Text (458 KB)] IEEE CNF

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**11 Adaptive running of a quadruped robot on irregular terrain based on biological concepts**

*Zhang, Z.G.; Fukuoka, Y.; Kimura, H.;*  
Robotics and Automation, 2003. Proceedings. ICRA '03. IEEE International Conference on , Volume: 2 , 14-19 Sept. 2003  
Pages:2043 - 2048 vol.2

[Abstract] [PDF Full-Text (431 KB)] IEEE CNF

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**12 Generation of an adaptive controller CPG for a quadruped robot with neuromodulation mechanism**

*Fujii, A.; Saito, N.; Nakahira, K.; Ishiguro, A.; Eggenberger, P.;*  
Intelligent Robots and System, 2002. IEEE/RSJ International Conference on , Volume: 3 , 30 Sept.-5 Oct. 2002  
Pages:2619 - 2624 vol.3

[Abstract] [PDF Full-Text (466 KB)] IEEE CNF

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**13 Statistical neurodynamics of the oscillatory circuit underlying central pattern generation**

*Pan Hong; Qian Minping; Guo Aike;*  
Neural Networks, 1990., 1990 IJCNN International Joint Conference on , 17-2 June 1990  
Pages:161 - 168 vol.1

[Abstract] [PDF Full-Text (360 KB)] IEEE CNF

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**14 An analog CMOS central pattern generator for interlimb coordination in quadruped locomotion**

*Nakada, K.; Asai, T.; Amemiya, Y.;*  
Neural Networks, IEEE Transactions on , Volume: 14 , Issue: 5 , Sept. 2003  
Pages:1356 - 1365

[Abstract] [PDF Full-Text (645 KB)] IEEE JNL

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**15 Modeling enhanced gas generation rates in a 155 mm ETC gun**

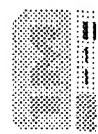
*Woodley, C.R.; Billett, S.J.;*  
Magnetics, IEEE Transactions on , Volume: 37 , Issue: 1 , Jan. 2001  
Pages:207 - 210

[Abstract] [PDF Full-Text (96 KB)] IEEE JNL

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**JNL** = Journal or Magazine **CNF** = Conference **STD** = Standard
- 
- 16 Design of central pattern generator for humanoid robot walking based on multi-objective GA**  
*Jiang Shan; Cheng Junshi; Chen Jiapin;*  
Intelligent Robots and Systems, 2000. (IROS 2000). Proceedings. 2000 IEEE/International Conference on , Volume: 3 , 31 Oct.-5 Nov. 2000  
Pages:1930 - 1935 vol.3
- [Abstract] [PDF Full-Text (400 KB)] **IEEE CNF**
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- 17 A chaotic pulse generator and sawtooth control for information processing**  
*Torikai, H.; Saito, T.; Schwarz, W.;*  
Circuits and Systems, 1997. ISCAS '97., Proceedings of 1997 IEEE International Symposium on , Volume: 1 , 9-12 June 1997  
Pages:729 - 732 vol.1
- [Abstract] [PDF Full-Text (304 KB)] **IEEE CNF**
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- 18 A pattern matching algorithm for codon optimization and CpG motif engineering in DNA expression vectors**  
*Ravi Vijaya Satya; Amar Mukherjee; Udaykumar Ranga;*  
Bioinformatics Conference, 2003. CSB 2003. Proceedings of the 2003 IEEE , 1 Aug. 2003  
Pages:294 - 305
- [Abstract] [PDF Full-Text (565 KB)] **IEEE CNF**
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- 19 Adaptive dynamic walking of a quadruped robot 'Tekken' on irregular terrain using a neural system model**  
*Fukuoka, Y.; Kimura, H.; Hada, Y.; Takase, K.;*

Robotics and Automation, 2003. Proceedings. ICRA '03. IEEE International Conference on , Volume: 2 , 14-19 Sept. 2003  
Pages:2037 - 2042 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(448 KB\)\]](#) [IEEE CNF](#)

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**20 Integration of multi sensors for adaptive walking of a quadruped robot**  
*Fukuoka, Y.; Mimura, T.; Yasuda, N.; Kimura, H.*  
Multisensor Fusion and Integration for Intelligent Systems, MFI2003. Proceedings of IEEE International Conference on , 30 July-1 Aug. 2003  
Pages:21 - 26

[\[Abstract\]](#) [\[PDF Full-Text \(649 KB\)\]](#) [IEEE CNF](#)

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**21 A theory of convergence order of maxmin rate allocation and an optimal protocol**

*Ros, J.; Tsai, W.K.*  
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Pages:717 - 726 vol.2

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**22 Hexapodal robot locomotion over uneven terrain**

*Barnes, D.*  
Control Applications, 1998. Proceedings of the 1998 IEEE International Conference on , Volume: 1 , 1-4 Sept. 1998  
Pages:441 - 445 vol.1

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**23 A framework for integrating data alignment, distribution, and redistribution in distributed memory multiprocessors**

*Garcia, J.; Ayguade, E.; Labarta, J.*  
Parallel and Distributed Systems, IEEE Transactions on , Volume: 12 , Issue: 4 , April 2001  
Pages:416 - 431

[\[Abstract\]](#) [\[PDF Full-Text \(1132 KB\)\]](#) [IEEE JNL](#)

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**24 A multiplex communication system using chaotic pulse-trains with sawtooth control**

*Torikai, H.; Saito, T.*  
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Pages:1065 - 1068 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(284 KB\)\]](#) [IEEE CNF](#)

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**25 A CNN-based chip for robot locomotion control**

*Arena, P.; Castorina, S.; Fortuna, L.; Frasca, M.; Ruta, M.*  
Circuits and Systems, 2003. ISCAS '03. Proceedings of the 2003 International Symposium on , Volume: 3 , 25-28 May 2003

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**26 Guideline composition from minimum basic data set**

*Riano, D.;*

Computer-Based Medical Systems, 2003. Proceedings. 16th IEEE Symposium

27 June 2003

Pages:231 - 235

[\[Abstract\]](#) [\[PDF Full-Text \(392 KB\)\]](#) [IEEE CNF](#)

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**27 CNN based central pattern generators with sensory feedback**

*Arena, P.; Fortuna, L.; Frasca, M.; Patane, L.;*

Cellular Neural Networks and Their Applications, 2002. (CNNA 2002). Proceed

of the 2002 7th IEEE International Workshop on , 22-24 July 2002

Pages:275 - 282

[\[Abstract\]](#) [\[PDF Full-Text \(347 KB\)\]](#) [IEEE CNF](#)

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**28 RF coils, helical resonators and voltage magnification by coherent spatial modes**

*Corum, K.L.; Corum, J.F.;*

Telecommunications in Modern Satellite, Cable and Broadcasting Service, 200 TELSIKS 2001. 5th International Conference on , Volume: 1 , 19-21 Sept. 2001

Pages:339 - 348 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(832 KB\)\]](#) [IEEE CNF](#)

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**29 Re-examining maxmin protocols: a fundamental study on converge complexity, variations, and performance**

*Tsai, W.K.; Yuseok Kim;*

INFOCOM '99. Eighteenth Annual Joint Conference of the IEEE Computer and Communications Societies. Proceedings. IEEE , Volume: 2 , 21-25 March 1999

Pages:811 - 818 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(684 KB\)\]](#) [IEEE CNF](#)

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**30 Three dimensional bipedal stepping motion using neural oscillators towards humanoid motion in the real world**

*Miyakoshi, S.; Taga, G.; Kuniyoshi, Y.; Nagakubo, A.;*

Intelligent Robots and Systems, 1998. Proceedings., 1998 IEEE/RSJ International Conference on , Volume: 1 , 13-17 Oct. 1998

Pages:84 - 89 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(600 KB\)\]](#) [IEEE CNF](#)

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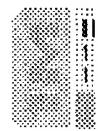
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#### 31 Partially interdigitated combline filter

*Vangala, R.;*  
Radio and Wireless Conference, 1998. RAWCON 98. 1998 IEEE , 9-12 Aug. 19  
Pages:297 - 299

[Abstract]   [\[PDF Full-Text \(360 KB\)\]](#)   IEEE CNF

#### 32 Test suite generation methods for concurrent systems based on coloured Petri nets

*Watanabe, H.; Kudoh, T.;*  
Software Engineering Conference, 1995. Proceedings., 1995 Asia Pacific , 6-9  
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Pages:242 - 251

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#### 33 Development Of The CPG 5 kW Dish/Stirling System

*Bean, J.R.; Kubo, I.;*  
Energy Conversion Engineering Conference, 1990. IECEC-90. Proceedings of the  
25th Intersociety , Volume: 6 , August 12-17, 1990  
Pages:298 - 302

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#### 34 Bionic design of the quadrupedal robot and motion simulation

*Zhang Xiuli; Duan Guanghong; Zheng Haojun; Zhao Liyao; Cheng Zhifeng;*  
Robotics, Intelligent Systems and Signal Processing, 2003. Proceedings. 2003  
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**35 Adaptive dynamic walking of a quadruped robot on irregular terrain using neural system model**

*Kimura, H.; Fukuoka, Y.;*

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Pages:979 - 984 vol.2

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**36 Building artificial CPGs with asymmetric Hopfield networks**

*Felipe, M.G.; Yang, F.; Yang, Z.;*

Neural Networks, 2000. IJCNN 2000, Proceedings of the IEEE-INNS-ENNS International Joint Conference on , Volume: 4 , 24-27 July 2000

Pages:290 - 295 vol.4

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**37 The effect of noise on a bistable regime in the dynamical model of locomotor rhythm**

*Zakharov, D.G.; Sushchik, M.M.; Molkov, Y.I.;*

Control of Oscillations and Chaos, 2000. Proceedings. 2000 2nd International Conference , Volume: 3 , 5-7 July 2000

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[\[Abstract\]](#) [\[PDF Full-Text \(336 KB\)\]](#) [IEEE CNF](#)

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**38 A mathematical model of adaptation in rhythmic motion to environmental changes**

*Ito, S.; Yuasa, H.; Zhi-Wei Luo; Ito, M.; Yanagihara, D.;*

Systems, Man, and Cybernetics, 1997. 'Computational Cybernetics and Simulation', 1997 IEEE International Conference on , Volume: 1 , 12-15 Oct.

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**39 A framework for automatic dynamic data mapping**

*Garcia, J.; Ayguade, E.; Labarta, J.;*

Parallel and Distributed Processing, 1996. Eighth IEEE Symposium on , 23-26 1996

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**40 An optimal DNA segmentation based on the MDL principle**

*Szpankowski, W.; Ren, W.; Szpankowski, L.;*

Bioinformatics Conference, 2003. CSB 2003. Proceedings of the 2003 IEEE , 1 Aug. 2003

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[\[Abstract\]](#) [\[PDF Full-Text \(308 KB\)\]](#) [IEEE CNF](#)

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**41 Evolutionary synthesis of dynamic motion and reconfiguration proc for a modular robot M-TRAN**

*Yoshida, E.; Murata, S.; Kamimura, A.; Tomita, K.; Kurokawa, H.; Kokaji, S.;*  
Computational Intelligence in Robotics and Automation, 2003. Proceedings. 2003 IEEE International Symposium on , Volume: 2 , 16-20 July 2003  
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**42 Vision-based reinforcement learning for humanoid behavior genera with rhythmic walking parameters**

*Ogino, M.; Katoh, Y.; Aono, M.; Asada, M.; Hosoda, K.;*  
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**43 Three-dimensional adaptive dynamic walking of a quadruped - rolli motion feedback to CPGs controlling pitching motion**

*Kimura, H.; Fukuoka, Y.; Hada, Y.; Takase, K.;*  
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**44 Sensorimotor feedback in a closed-loop model of biological rhythmi movement control**

*Simoni, M.F.; DeWeerth, S.P.;*  
[Engineering in Medicine and Biology, 2002. 24th Annual Conference and the Annual Fall Meeting of the Biomedical Engineering Society] EMBS/BMES Conference, 2002. Proceedings of the Second Joint , Volume: 3 , 23-26 Oct. 2  
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[\[Abstract\]](#) [\[PDF Full-Text \(151 KB\)\]](#) [IEEE CNF](#)

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**45 Multi-template approach to artificial locomotion control**

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